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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/612,121	. 07/02/2003	Jamie L. Brewer	260385.20005	6561	
7590 02/06/2008 Eugene LeDonne, Esq		EXAMINER			
Reed Smith, Ll	Reed Smith, LLP 599 Lexington Avenue, 29th Floor			JUEDES, AMY E	
New York, NY			ART UNIT	PAPER NUMBER	
		·	1644		
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			02/06/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<u> </u>	Application No.	Applicant(s)			
	10/612,121	BREWER ET AL.			
Office Action Summary					
,	Examiner	Art Unit			
The MAILING DATE of this communication	Amy E. Juedes, Ph.D.	correspondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be the total will apply and will expire SIX (6) MONTHS from the total the application to become ABANDON	DN. Imely filed m the mailing date of this communication. IED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 26	<u> 6 November 2007</u> .				
·=	,				
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-19 is/are pending in the application	ion.				
4a) Of the above claim(s) <u>1-14,17 and 18</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>15-16 and 19</u> is/are rejected.					
7) Claim(s) is/are objected to.	dor election requirement				
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9)☐ The specification is objected to by the Exam	niner.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
11) The oath or declaration is objected to by the	e Examiner. Note the attached Onic	SE ACTION OF IONI PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:	eign priority under 35 U.S.C. § 119(a)-(d) or (f).			
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
occ the attached detailed office action for a list of the certified copies not received.					
Attachment(s)	4) 🔲 Interview Summa	, n/ (PTO 413)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	Paper No(s)/Mail	Date			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal 6) Other:	Patent Application			

Application/Control Page 2 Number: 10/612,121

Art Unit: 1644

DETAILED ACTION

1. Applicant's amendment and remarks, filed 11/26/07, are acknowledged.

Claims 15 and 19 have been amended. Claims 1-19 are pending.

2. Claims 1-14 and 17-18 stand withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Claims 15-16 and 19 are being acted upon.

- 3. The rejection of the claims under 35 U.S.C. 103 is withdrawn in view of Applicant's amendment. The cited references do not teach a kit which comprises SEQ ID NOs: 33-55, wherein each of SEQ ID NOs: 33-55 "consists" of the sequences set forth in Table 2, or variations thereof that differ by no more than 8 nucleotides.
- 4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 15-16 and 19 stand rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Specifically, there is insufficient written description to demonstrate that applicant was in possession of the claimed genus of "variations" of SEQ ID NOs: 33-55 that differ by "no more than 8 nucleotides" or "no more than 2 nucleotides".

As set forth previously, The instant claims encompass a genus of nucleic acid variants that differ by up to 8 nucleotides from the sequences of SEQ ID NOs: 33-55. The sequences of SEQ ID NOs: 33-55 comprise as few as 18 nucleotides. Thus, the instant claims encompass structurally different "variations" that differ by up to approximately 40% from the sequences of SEQ ID NO: 33-55. Furthermore, even when the claims are limited to variations of no more than 2 nucleotides, this still

Page 3

Application/Control Number: 10/612,121

Art Unit: 1644

encompasses structurally different sequences varying up to approximately 10% from the sequences of SEQ ID NOs: 33-55. Additionally, the claims do not specify any functional limitations required of the claimed sequences, and thus the claims might encompass functionally different "variations" that do not even function to assess the expression of T cell receptor variable subunits. Furthermore, the instant specification does not disclose a single species of sequence that is a "variation" of SEQ ID NOs: 33-55. Thus, one of skill in the art would conclude that the specification fails to provide adequate written description to demonstrate that Applicant was in possession of the claimed genus. See *Eli Lilly*, 119 F. 3d 1559, 43, USPQ2d 1398.

Applicant's arguments filed 11/26/07 have been fully considered, but they are not persuasive.

Applicant argues that the specification at paragraph 10 discloses nucleotide sequences that differ by up to 8 nucleotides, but more often by one or two nucleotides, are considered within the scope of the invention. Thus, Applicant concludes that the specification provides direct support for the language of claim 15, and the written description requirement has been met.

The instant claims are drawn to a genus of nucleic acid molecule variants that differ by up to 8 nucleotides from the nucleic acid sequences of SEQ ID Nos: 33-55 (i.e. nucleic acid molecules with as little as 60% identity to SEQ ID NOs: 33-55). The written description requirement for a claimed genus may be satisfied through sufficient description of a representative number of species by actual reduction to practice (see i)(A), above), reduction to drawings (see i)(B), above), or by disclosure of relevant, identifying characteristics, i.e., structure or other physical and/or chemical properties, by functional characteristics coupled with a known or disclosed correlation between function and structure, or by a combination of such identifying characteristics, sufficient to show the applicant was in possession of the claimed genus (see i)(C), above). See MPEP 2163. In the instant case, the claims encompass a wide range of structurally and functionally different variant nucleic acid molecules, as noted above, and the instant specification does not disclose a single species.

- 5. No claim is allowed.
- 6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action

Application/Control Number: 10/612,121

Art Unit: 1644

is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amy E. Juedes, Ph.D. whose telephone number is 571-272-4471. The examiner can normally be reached on 8am - 5pm, Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on 571-272-0841. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Amy E. Juedes, Ph.D. Patent Examiner Technology Center 1600

G.R. EWOLDT, PH.D. PRIMARY EXAMINER